

Lesson 5.1-
 4. $EH \cong HF$ or $\angle GHE \cong \angle GHF$
 5. $EJ \cong JG$
 6. EK is an angle bisector

Lesson 5.2-
 1. $QW \cong ZW$
 3. $RS \cong TU$
 4. 5

Lesson 5.4-
 1. $\angle CBA$; $\angle A$
 3. 8; PR, PQ, QR
 4. 7; PR, QR, PQ

Lesson 5.5-
 1. Yes
 3. No
 5. 3 and 27

Lesson 6.1-
 7. $x = 80$, $y = 80$, $z = 100$
 8. $x = 25$, $y = 35$, $z = 120$
 9. $x = 30$, $y = 40$, $z = 110$

Lesson 6.2-
 4. $x = 2$, $y = -3$
 5. $x = 1$, $y = 4$
 6. $x = 11$, $y = 11$

Lesson 6.3-
 1. 12
 2. 8
 3. 6
 4. 62.5
 5. 70

6. true, a parallelogram with \cong diagonals is a rectangle
 7. false, if the diagonals of a quadrilateral bisect each other, then it is a parallelogram.
 8. true, a rectangle is a quadrilateral with 4 right angles.

Lesson 8.1-
 1. $\sqrt{15} \approx 3.9$
 2. $3/2$
 5. $\sqrt{125} \approx 11.2$; $\sqrt{500} \approx 22.4$
 7. yes

Lesson 8.2-
 1. 5; $5\sqrt{3} \approx 8.66$
 2. $7\sqrt{2}/2 \approx 4.95$, $7\sqrt{2}/2 \approx 4.95$
 4. $17\sqrt{2} \approx 24.04\text{m}$
 7. $7\sqrt{3} \approx 12.12\text{ cm}$

Lesson 8.3-
 2. $20/29$
 6. $3/4$
 7. 9.3
 8. 58.0
 9. 17.7

Lesson 8.4-
 4. 4.2
 6. about 71.5m
 7. about 18.9 ft
 8. about 321.7

Lesson 9. 1-
 8. 3.5; 1.8
 11. $15\pi\text{cm}$
 12. $3\sqrt{2}\pi\text{m}$

Lesson 9.2-
 2. major; 320
 6. 44.7

Lesson 9.3-
 7. 75
 8. 10

Lesson 9.4-
 2. 124
 4. 236
 7. 170

Lesson 9.5-
 9. 12
 10. 8
 11. 8

Lesson 9.6-
 8. 50
 9. 10

Lesson 9.7-
 1. 1.8
 2. 5
 3. 2.1

Lesson 10.1-
 1. 2340
 4. 15
 8. 157.5, 22.5
 10. 18